

**FIG. 1****NUCLEOTIDE AND AA SEQUENCE**

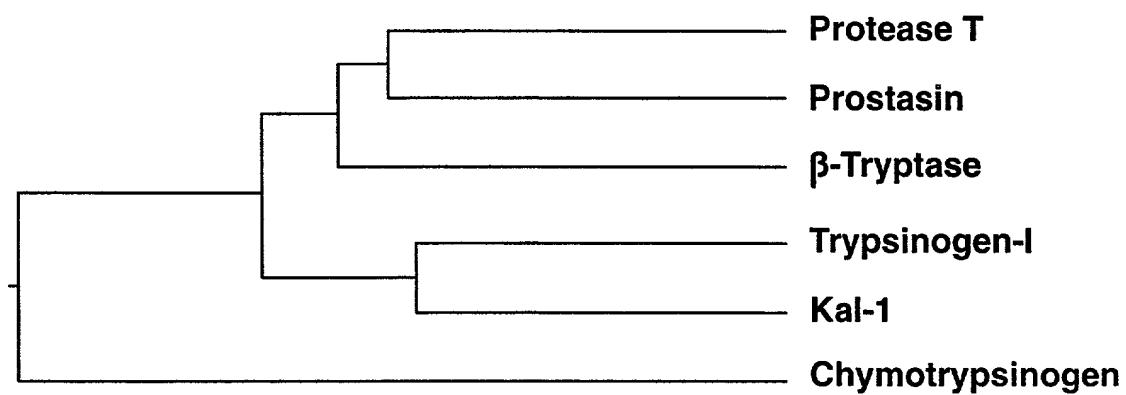
Nucleic acid sequence of Protease T (SEQ.ID.NO.:1)

GACCACGGCCCTGCGCCCCAGCCAGGCCCTGAGGACATGAGGCCGGCCGGCGGTGCCGC  
 TCCCTGCTGCTGCTGTGTTTGGGTCTCAGAGGCCAAGGCAGCAACAGCCTGTGGTCGCC  
 CCAGGATGCTGAACCGAATGGTGGGCGGGCAGGACACGCAGGAGGGCAGTGCCCTGGC  
 AAGTCAGCATCCAGCGCAACCGAACCCACTCTGCGGGGGCAGCCTCATCGGGAGCAGT  
 GGGTCCTGACGGCTGCGCACTGCTTCCGCAACACCTCTGAGACGTCCCTGTACCAAGGTCC  
 TGCTGGGGCAAGGCAGCTAGTGCAGCCGGGACCACACGCTATGTATGCCCGGGTGAGGC  
 AGGTGGAGAGCAACCCCTGTACCAAGGGCACGGCTCCAGCGCTGACGTGGCCCTGGTGG  
 AGCTGGAGGCACCAGTGCCTTCACCAATTACATCCTCCCGTGTGCCTGCCTGACCCCT  
 CGGTGATCTTGAGACGGCATGAACGTGGTCAGTGGCTGGGCAGCCCCAGTGAGG  
 AAGACCTCTGCCCGAACCGGGATCCTGCAGAAACTCGCTGTGCCATCATGACACAC  
 CCAAGTGCAACCTGCTCTACAGCAAAGACACCGAGTTGGCTACCAACCCAAAACCATCA  
 AGAATGACATGCTGTGCGCCGCTTCCAGGGAGGGCAAGAAGGATGCCGTCAAGGGCGACT  
 CGGGCGGCCCTGGTGTGCCTCGTGGTCAGTCGTGGCTGCAGGGGGGTGATCAGCT  
 GGGGTGAGGGCTGTGCCGCCAGAACCGCCCAGGTGTCTACATCCGTGTACCGGCCACC  
 ACAACTGGATCCATGGATCATCCCCAAACTGCAGTCCAGCCAGCGAGGTTGGCGGCC  
 AGAAGTGAGACCCCCGGGCCAGGAGCCCTTGAGCAGAGCTCTGCACCCAGCCTGCCCG  
 CCCACACCATCCTGCTGGTCCTCCCAGCGCTGCTGTGCACCTGTGAGCCCCACCAAGACT  
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 CCAATAAAACCCAGCCTGTGTGCCAGCTG

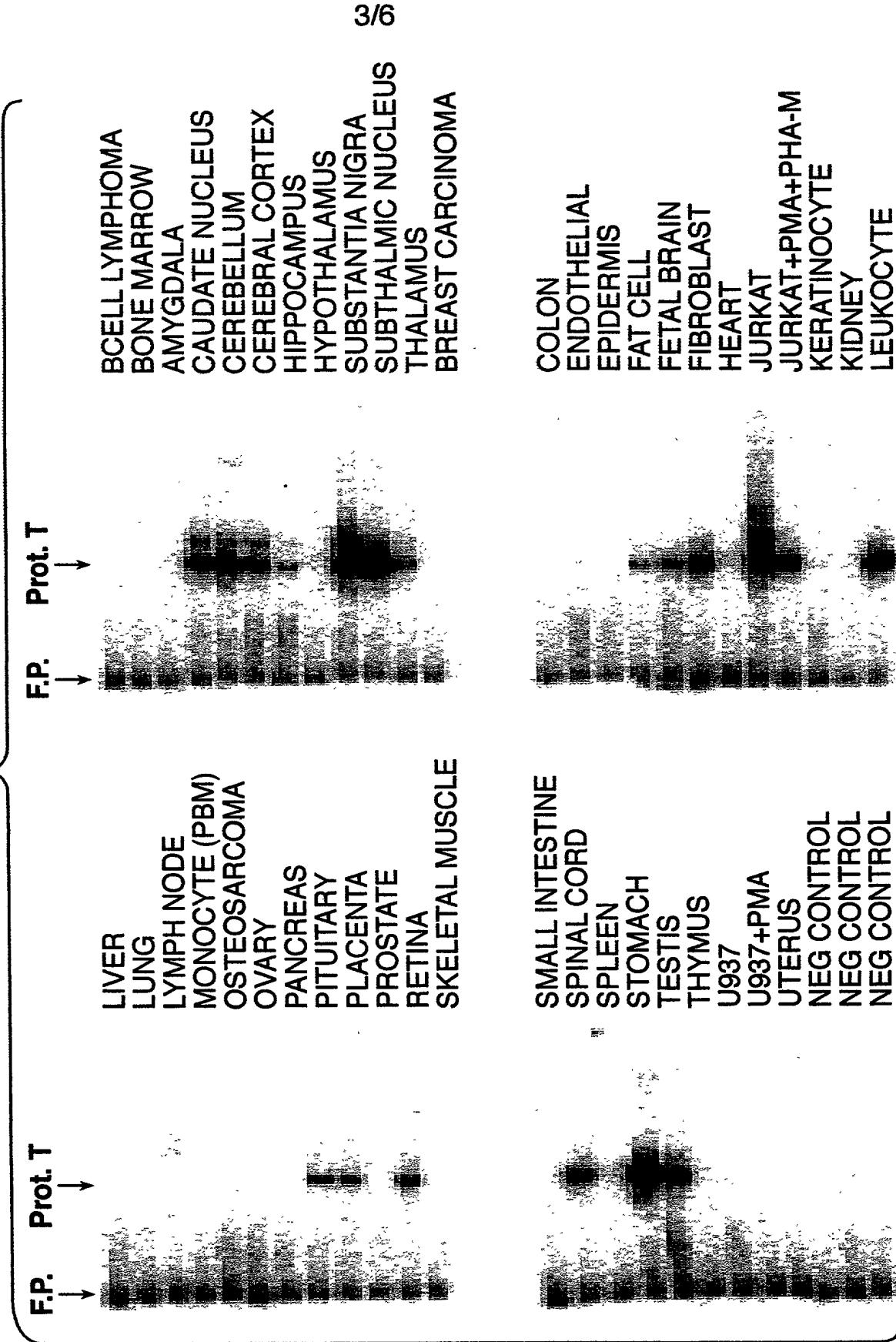
>Amino Acid Sequence of Protease T (SEQ.ID.NO.:7)

MRRPAAVPLLLLLLFCFGSQRANKATACGRPRMLNRMVGGQDTQEWEWPWQVSIQRNGSHFC  
 GGSLIAEQWLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAMYARVRQVESNPLYQGTA  
 SSADVALVELEAPVPTNYILPVCLPDPSVIFETGMNCWTGWGSPSEEDLLPEPRILQK  
 LAVPIIDTPKCNLLYSKDTEFGYQPKTIKNMCLAGFEEGKKDACKGDGGPLVCLVGQS  
 WLQAGVIWGEGCARQNRPGVYIRVTAAHNWIHRIIPKLQFQPARLGGQK

## **FIG. 2**



**FIG. 3**



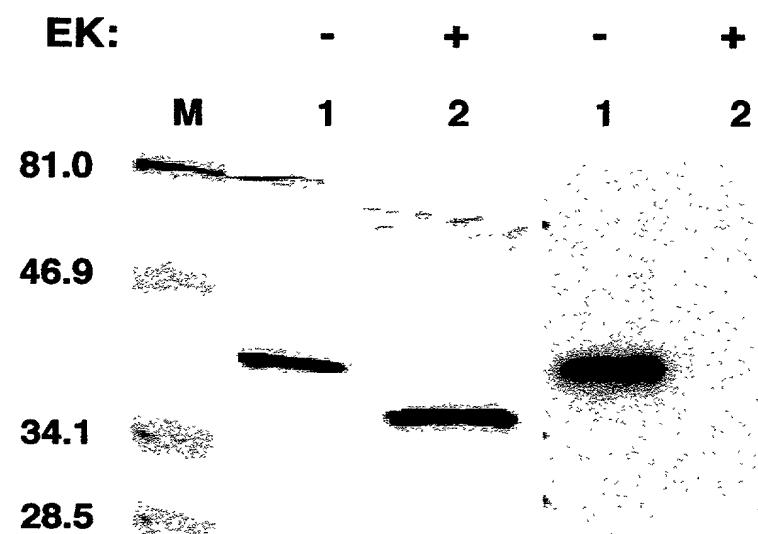
**FIG. 4****FUSION PROTEIN**

Nucleic Acid sequence of PFEK-PROTT-HIS fusion protein  
(SEQ.ID.NO.:8).

GAATTCAACCACCATGGACAGCAAAGGTTCGTCGCAGAAATCCCGCCTGCTCCTGCTGCTG  
GTGGTGTCAAATCTACTCTTGTGCCAGGGTGTGGTCTCCGACTACAAGGACGACGAC  
GTGGACGCCGCCGCTCTGCTGCCCTTGATGATGACAAGATCGTTGGGGCTAT  
GCTCTAGAGGAGGGCGAGTGGCCCTGGCAAGTCAGCATCCAGCGAACGGAAGCCACTTC  
TGCAGGGGCAGCCTCATCGCGGAGCAGTGGCTCTGACGGCTGCGCACTGCTCCGCAAC  
ACCTCTGAGACGTCCCTGTACCAAGGTCTGCTGGGGCAAGGCAGCTAGTGCAGCCGGGA  
CCACACGCTATGTATGCCGGGTGAGGCAGGTGGAGAGCAACCCCTGTACCAAGGGCACG  
GCCTCCAGCGCTGACGTGCCCTGGTAGCTGGAGGCACCAGTGCCTTCACCAATTAC  
ATCCTCCCCGTGTGCCCTGCCTGACCCCTCGGTGATCTTGAGACGGCATGAACTGCTGG  
GTCACTGGCTGGGGCAGCCCCAGTGAGGAAGACCTCCTGCCGAACCGCGGATCCTGCAG  
AAACTCGCTGTGCCCATCATCGACACACCCAAGTGCAACCTGCTCTACAGCAAAGACACC  
GAGTTGGCTACCAACCCAAAACCATCAAGAATGACATGCTGTGCCCGGCTTCGAGGAG  
GGCAAGAAGGATGCCTGCAAGGGCGACTCGGGCGCCCTGGTGTGCCCTCGTGGTCAG  
TCGTGGCTGCAGGGGGGTGATCAGCTGGGTGAGGGCTGTGCCGCCAGAACCGCCCA  
GGTGTCTACATCCGTGTACCGCCCCACCACAACTGGATCCATCGGATCATCCCCAACTG  
CAGTTCCAGCCAGCGAGGTTGGCGGCCAGAAGTCTAGACATCACCACCACTCACTAG  
CGGCCGCTCCCTTAGTGAGGGTTAATGCTCGAGCAGACATGATAAGATAACATTGATG  
AGTTGGACAAACCACAACTAGAATGCAGTGAACCAACTGCTTATTGTGAAATTGTG  
ATGCTATTGCTTATTGTAACCATTATAAGCTGCAATAACAAAGTTGAC

Amino Acid sequence of PFEK-PROTT-HIS fusion protein  
(SEQ.ID.NO.:9).

MDSKGSSQKSRLLLLLLVSNLLCQGVVSDYKDDDDVDAAALAAPFDDDKIVGGYALEE  
GEWPWQVSIQRNGSHFCGGSLIAEQWVLAAHCFRNTSETSLYQVLLGARQLVQPGPHAM  
YARVRQVESNPLYQGTASSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWVTGW  
GSPSEEDLLPEPRILQKLAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEKKD  
ACKGDGGPLVCLVGQSWLQAGVISWGEGCARQNPGVYIRVTAAHNWIHRIIPKLQFQP  
ARLGGQKSRHHHHHH

**FIG. 5**

Protease: PFEK-Protease T-HIS

**FIG. 6****Protease Activity of Protease T**

■ H-D-Pro-HHT-Arg-pNA  
■ H-D-Lys(CBO)-Pro-Arg-pNA  
■ H-DL-Val-Leu-Arg-pNA

